

US00D726882S

(12) **United States Design Patent**
Maeda et al.

(10) **Patent No.:** **US D726,882 S**
(45) **Date of Patent:** **** Apr. 14, 2015**

(54) **RESIDUAL PRESSURE EXHAUST VALVE
SPACER**

(71) Applicants: **Naoyuki Maeda**, Tsukubamirai (JP);
Takashi Murakami, Tsukubamirai (JP);
Shinji Miyazoe, Tsukubamirai (JP)

(72) Inventors: **Naoyuki Maeda**, Tsukubamirai (JP);
Takashi Murakami, Tsukubamirai (JP);
Shinji Miyazoe, Tsukubamirai (JP)

(73) Assignee: **SMC Corporation**, Chiyoda-ku, Tokyo
(JP)

(**) Term: **14 Years**

(21) Appl. No.: **29/482,899**

(22) Filed: **Feb. 24, 2014**

(30) **Foreign Application Priority Data**

Oct. 3, 2013 (JP) 2013-023170

(51) **LOC (10) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/249**

(58) **Field of Classification Search**
CPC F16K 15/18; F16K 31/0675; F16K 31/02;
F16K 31/046; F16K 31/042
USPC D23/233-250; 137/554, 625.65;
73/756; 123/406.69; 251/129.01,
251/129.11, 129.15
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D426,615 S * 6/2000 Sato et al. D23/233
6,129,115 A * 10/2000 Janssen et al. 137/625.65
6,167,762 B1 * 1/2001 Miyazoe 73/756
6,227,248 B1 * 5/2001 Miyazoe 137/883
6,612,333 B2 * 9/2003 Miyazoe et al. 137/554
D623,270 S * 9/2010 Fukano et al. D23/233
7,871,060 B2 * 1/2011 Armour 251/129.15
D631,944 S * 2/2011 Karmel et al. D23/233

D700,286 S * 2/2014 Okitsu et al. D23/235
2002/0040735 A1 * 4/2002 Miyazoe et al. 137/554
2014/0151588 A1 * 6/2014 Huang et al. 251/129.01
2014/0224355 A1 * 8/2014 Okitsu et al. 137/505.11

OTHER PUBLICATIONS

Orbit Website Search, Dec. 15, 2014, 1/1 Designs Questel Pinch Valve, shown in pp. 1-4.*

* cited by examiner

Primary Examiner — Cynthia Ramirez

Assistant Examiner — Gino Colan

(74) *Attorney, Agent, or Firm* — Yokoi & Co., U.S.A.;
Toshiyuki Yokoi

(57) **CLAIM**

The ornamental design for a residual pressure exhaust valve spacer, as shown and described.

DESCRIPTION

FIG. 1 shows a front view of a residual pressure exhaust valve spacer showing our new design;
FIG. 2 shows a rear view thereof;
FIG. 3 shows a right side view thereof;
FIG. 4 shows a left side view thereof;
FIG. 5 shows a top view thereof;
FIG. 6 shows a bottom view thereof;
FIG. 7 shows a top, front and left side perspective view thereof;
FIG. 8 shows a top, rear and right side perspective view thereof;
FIG. 9 shows a bottom, front and right side perspective view thereof;
FIG. 10 shows a top, front and right side perspective view thereof in use with an electromagnetic valve body; and,
FIG. 11 shows a top, front and right side perspective view thereof in use with an electromagnetic valve body, wherein a lever is shown in an alternative position.
The portions of the design shown in broken lines in FIGS. 1-11 are for the purpose of illustrating the environment only and form no part of the claimed design.

1 Claim, 8 Drawing Sheets

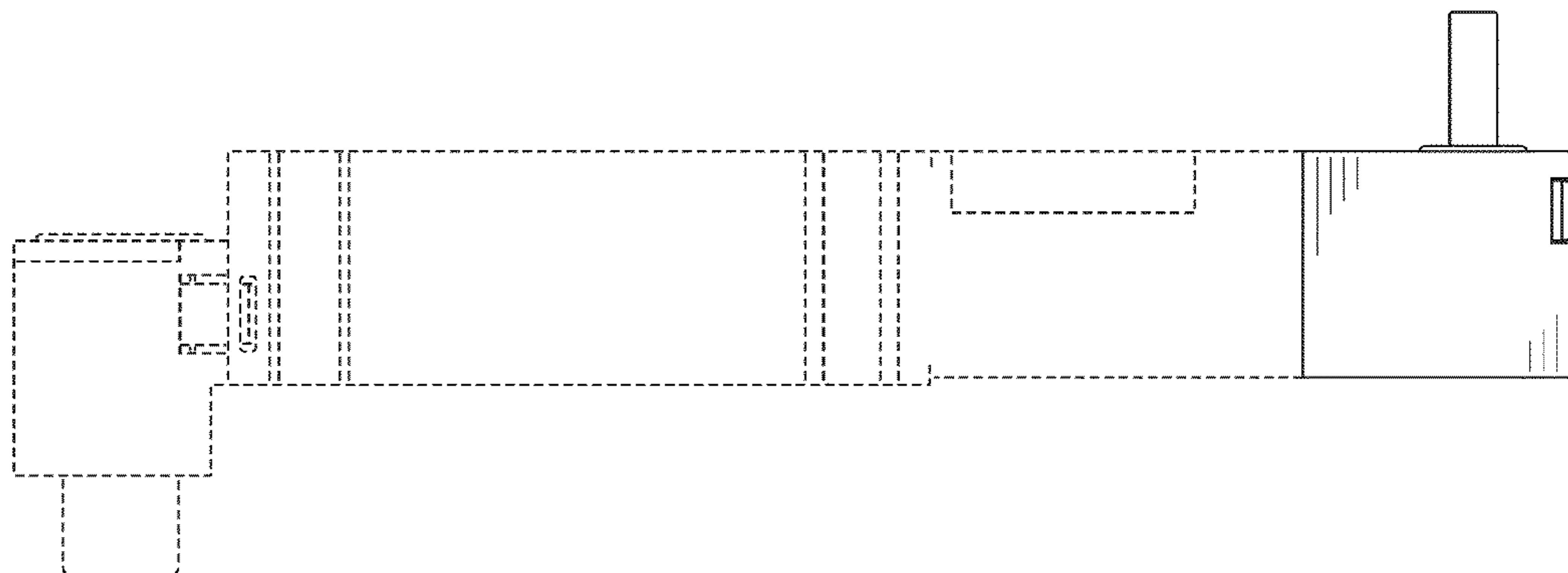


FIG. 1

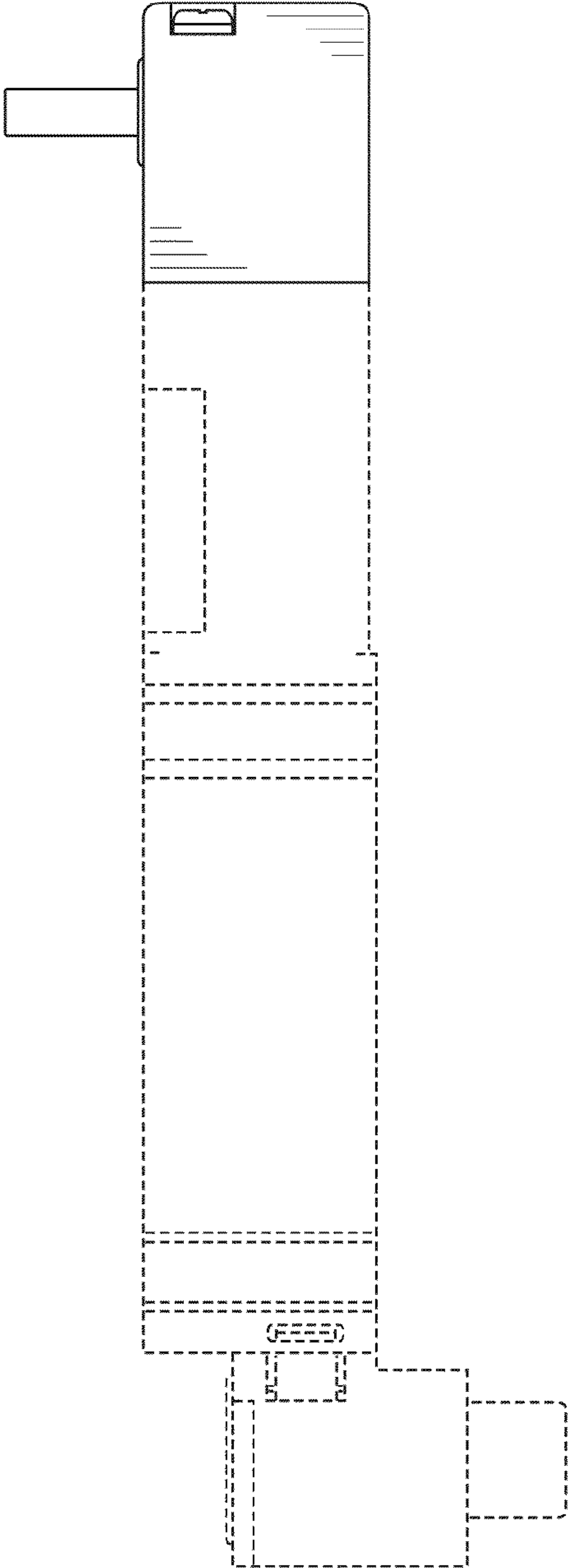


FIG. 2

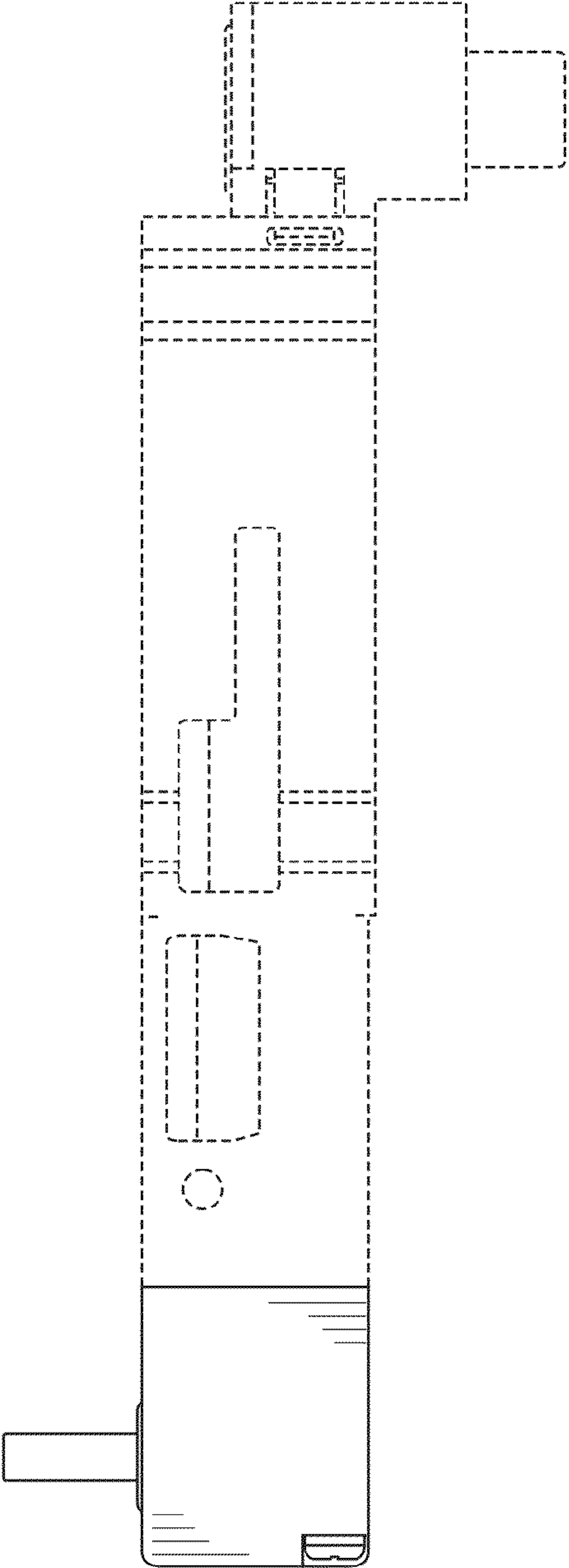


FIG. 3

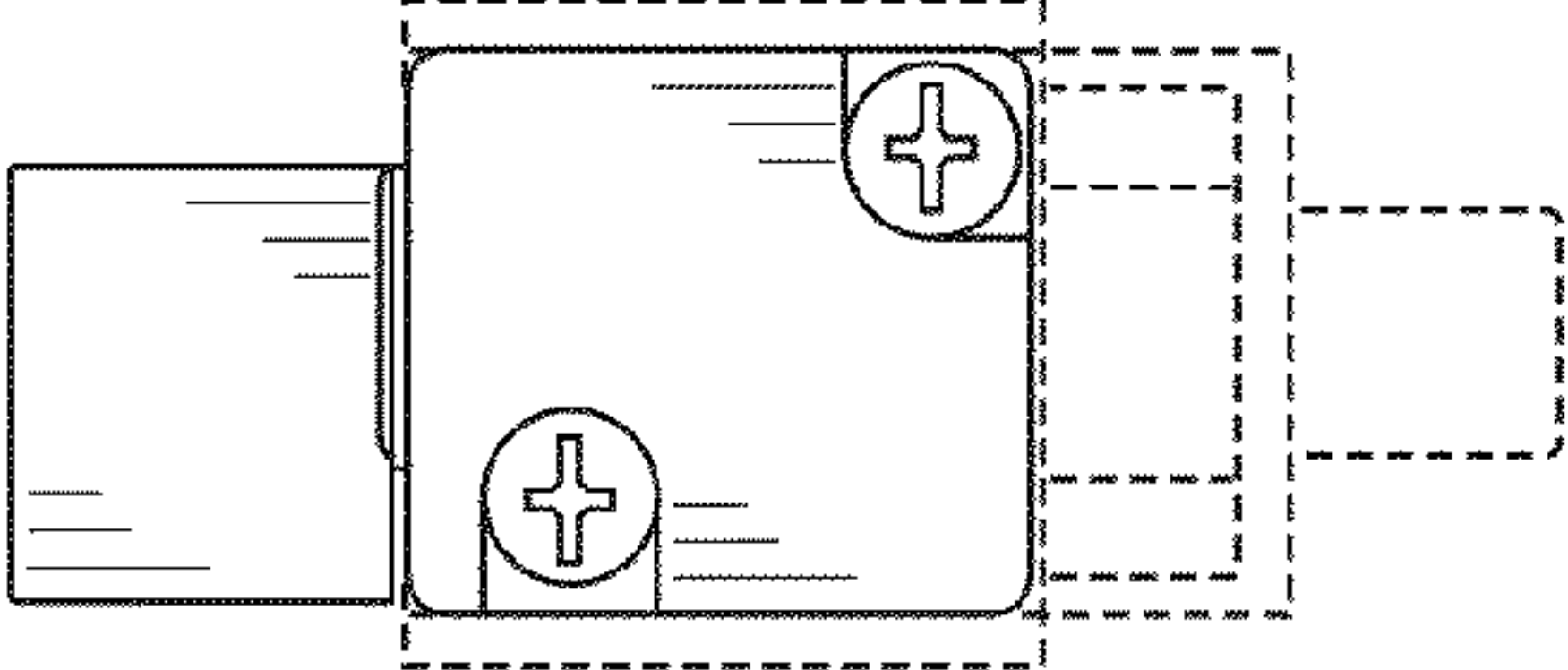


FIG. 4

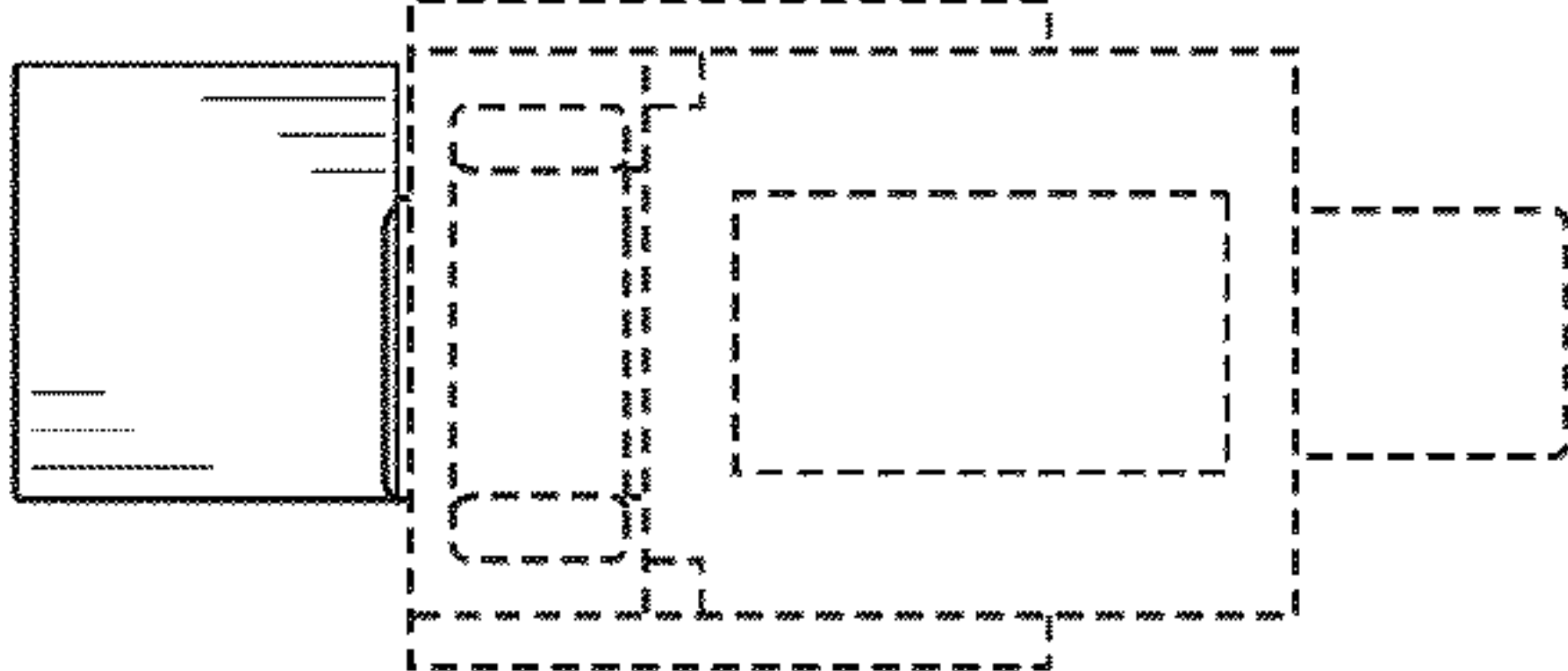


FIG. 5

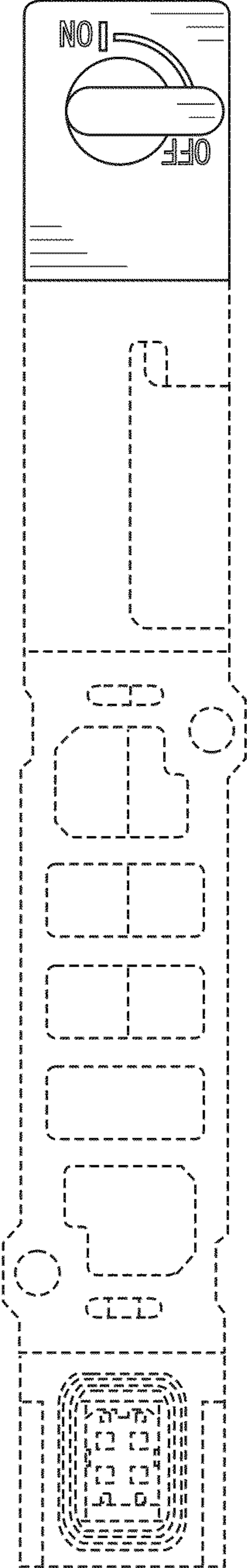


FIG. 6

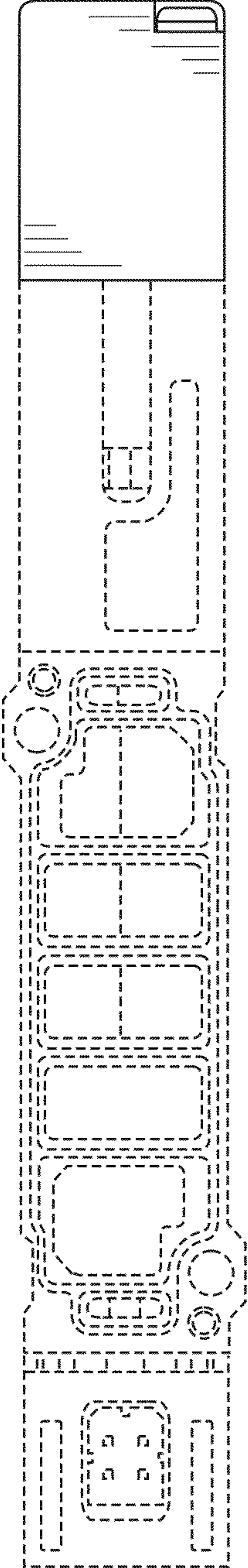


FIG. 7

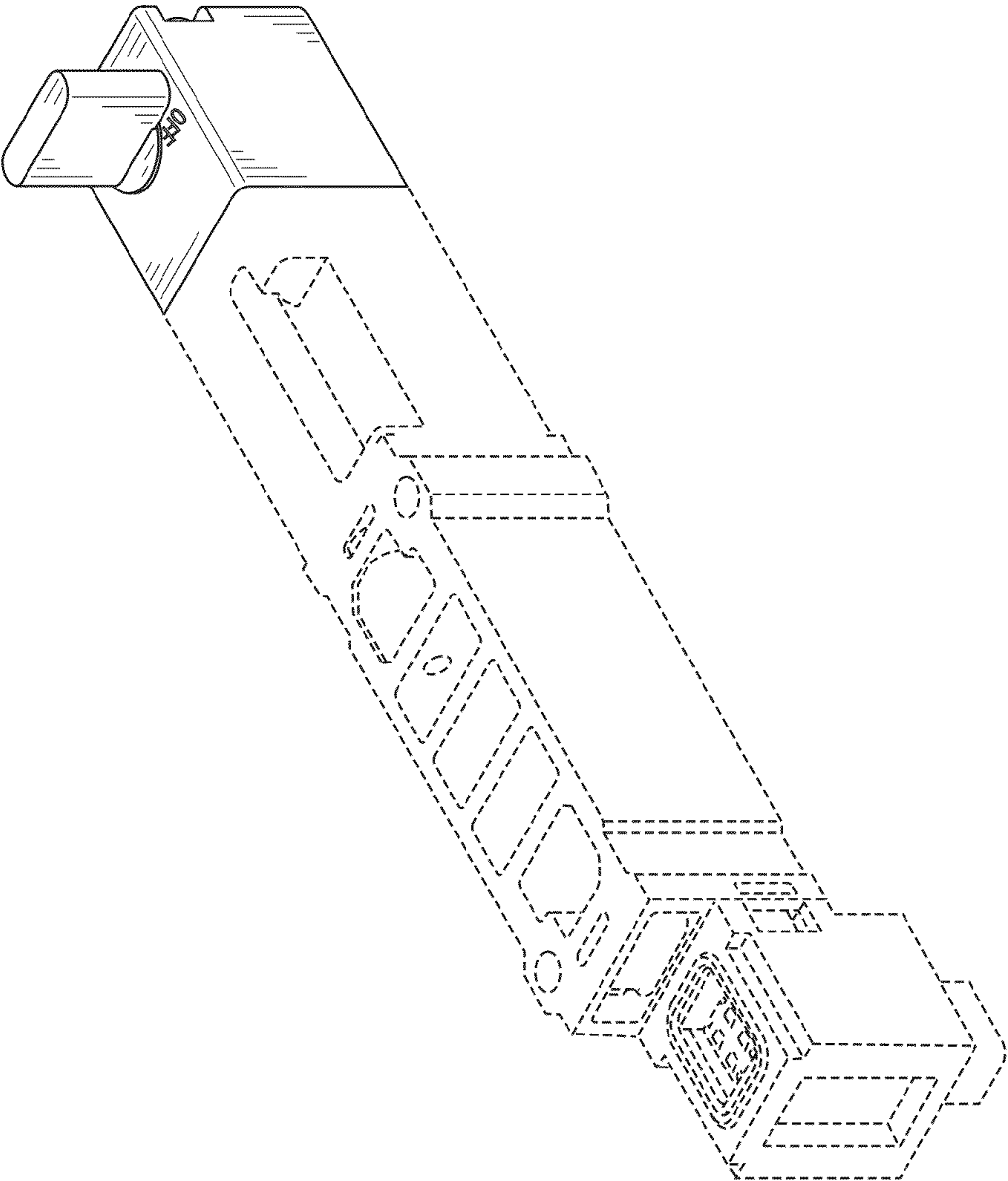


FIG. 8

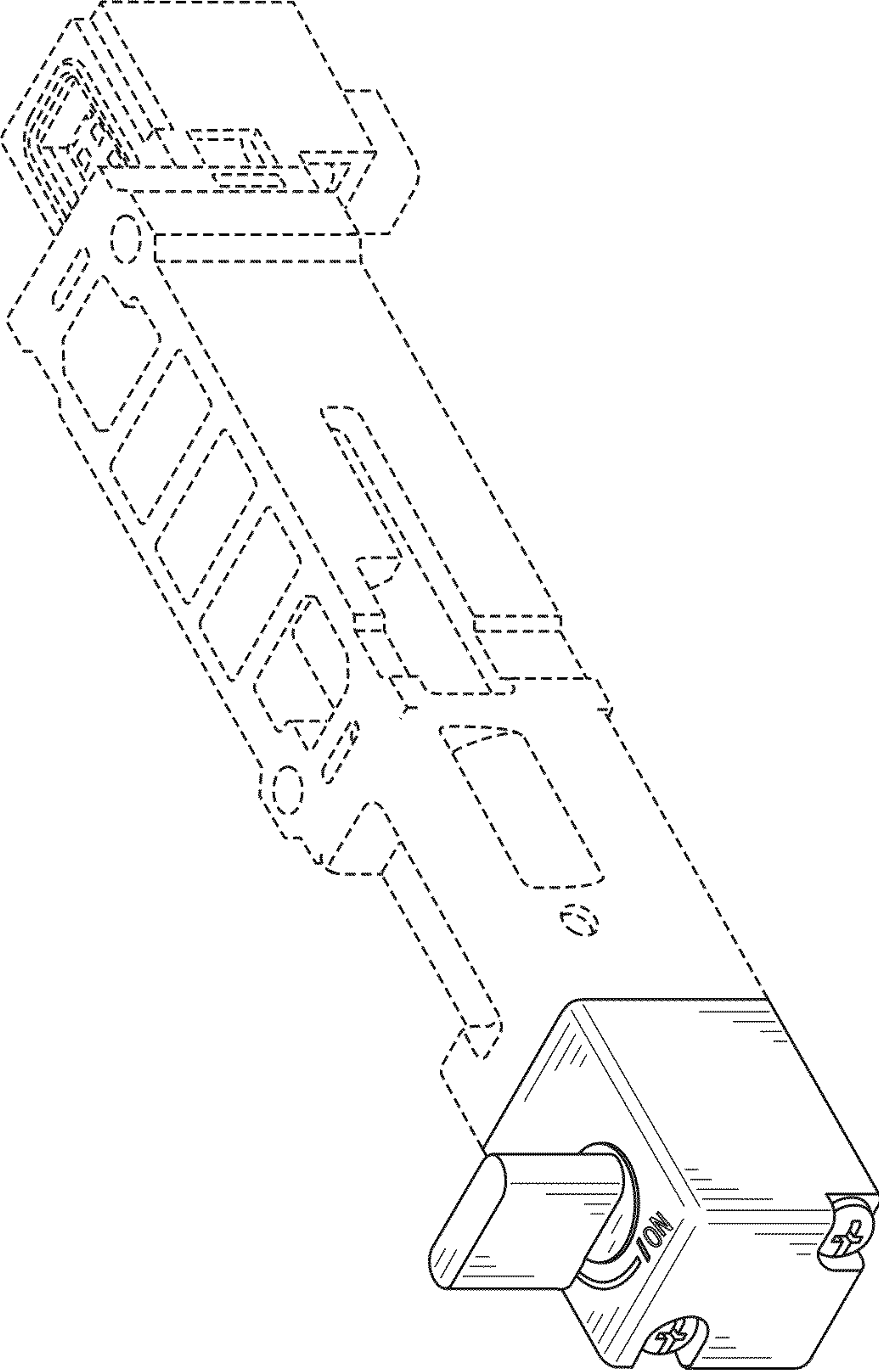


FIG. 9

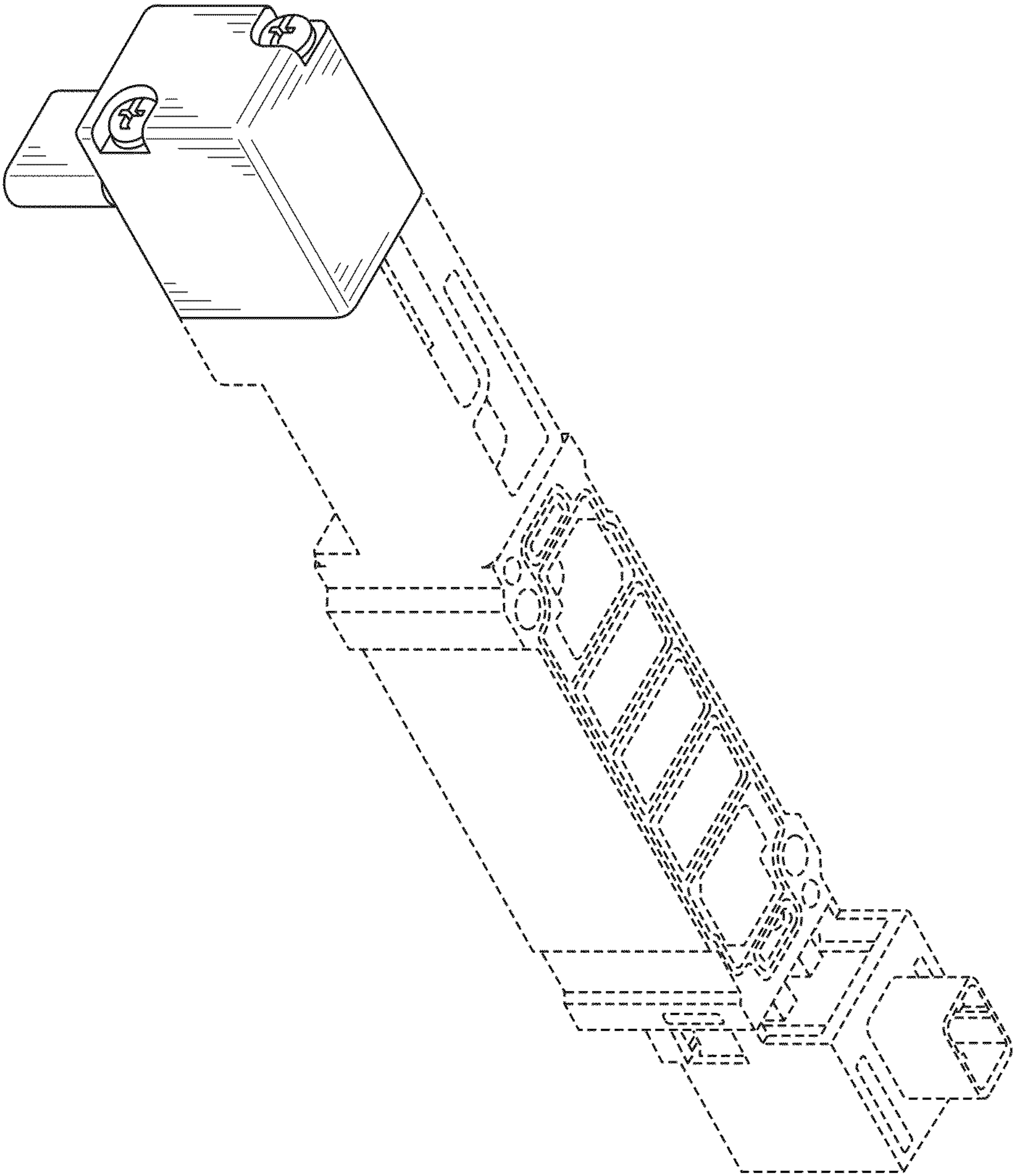


FIG. 10

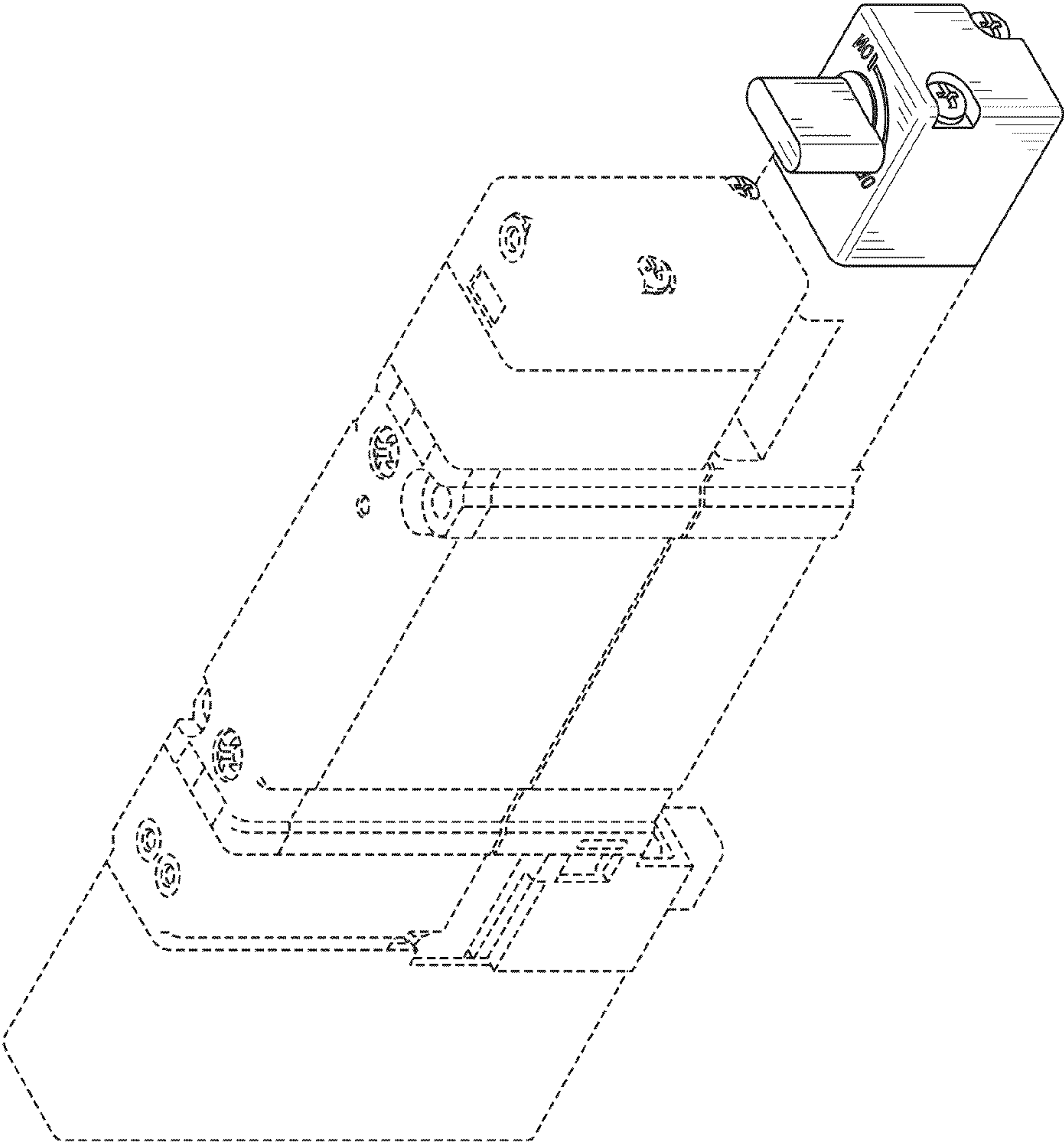


FIG. 11

